BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for Providing Asphalting to Roads and Improvement of Drains in Balaji Layout Sourroundings in Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.**

								Estimate Cost:	1465661.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.1 / PWD SR 2013-14**	Cum							
	Culvert		1	8.50	2.00	1.10	18.70		
	BS Slab Drain 1st Cross		2	150.00	0.90	0.60	162.00		
	RCC Drain		1	38.00	1.00	0.90	34.20		
	Drain Desilting 1st Cross		2	148.00	0.45	0.30	39.96	**TP**	
							254.86	65.22	**16622.00**
2	KSRRB M100-1: Loading and Unloading of stone boulder / stone aggregates / sand / kanker / moorum, KSRRB M100-1 : placing tipper at loading point, loading with front and loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH chapter 1, **Page No. 141/ Item No. 17.1/ PWD SR 2013-14**	Cum							
			Qty Vide Item No. 1				254.86	**TP**	
							254.86	77.46	**19741.00**
3	Removing B.S Slab of Drain and stacking **Page No. 28 / Item No. 5.32/ PWD SR 2013-14**	Sqm							
			Not Executed						
4	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 28 / Item No. 5.33/ PWD SR 2013-14**	Sqm							
			Not Executed						
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 28 / Item No. 5.31.1/ PWD SR 2013-14**	Sqm							
			2	150.00		1.65	495.00		
	Total Exeucted Qty						**495.00**	**TP**	
	Total Exeucted Qty upto 125%						**326.95**	341.01	**111493.00**
	Total Exeucted Qty Above 125%						**168.05**	341.01	**57307.00**
6	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14.**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	1st Cross Road		1	148.00	5.00	0.20	148.00		
	2nd Cross Road		1	105.00	5.00	0.20	105.00		
	App Palm Meadows		1	45.00	5.00	0.20	45.00	**TP**	
							298.00	1109.83	**330729.00**
7	KSRRB M500-6: Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, **Page No. 171/ Item No. 21.6/ PWD SR 20013-14**	Sqm							
	1st Cross Road		1	148.00	5.00		740.00		
	2nd Cross Road		1	105.00	5.00		525.00		
	App Palm Meadows		1	45.00	5.00		225.00	**TP**	
							1490.00	43.84	**65322.00**
8	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 178 / Item No. 21.20.4 / PWD SR 2013-14.**	Cum							
	1st Cross Road		1	148.00	5.00	0.025	18.50		
	2nd Cross Road		1	105.00	5.00	0.025	13.13	**TP**	
	App Palm Meadows		1	45.00	5.00	0.025	5.63		
							37.25	8770.65	**326707.00**
		EIRL							
9	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	1st Cross Culvert		1	8.50	2.00	0.15	2.55		
	1st Cross CC Drain		1	38.00	1.00	0.15	5.70		
							8.25	4290.84	**35399.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
10	KSRB 5.4-3: Providing and constructing granite / [illegible] / basalt size stone masonry in **superstructure with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 26 / Item No. 5.12/ PWD SR 2013-14**	Cum							
	Culvert 1st Cross		2	8.50	0.60	0.90	**9.18**	4423.68	**40609.00**
	Basic Rate	4096.00							
	Area Weightage @ 8%	327.68							
	Total	**4423.68**							
11	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 122 / Item No. 15.3 / PWD SR 2013-14**	Sqm							
	Culvert		2	8.50		0.90	**15.30**	77.76	**1190.00**
	Basic Rate	72.00							
	Area Weightage @ 8%	5.76							
	Total	**77.76**							
12	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12 / Item No. 4.6 / PWD SR 2013-14**	Cum							
	Culvert Coping		2	8.50	0.60	0.10	1.02		
	For Covering Sides		2	8.50	1.00	0.15	2.55		
							3.57	4779.00	**17061.00**
	Basic Rate	4425.00							
	Area Weightage @ 8%	354.00							
	Total	**4779.00**							
13	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	Culvert		1	8.50	0.60		5.10		
			2	8.50		0.25	4.25		
			2	1.80		0.25	0.90		
	CC Drain		4	38.00	0.60		91.20		
			4	38.00		0.10	15.20		
							116.65	271.08	**31621.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
14	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2013-14**	Cum							
	1st Cross Culvert		1	8.50	1.80	0.23	3.52		
	CC Drain 1st Cross Bottom		1	38.00	0.90	0.10	3.42		
	Side Walls		2	38.00	0.15	0.60	6.84		
	Covering Slab		1	38.00	0.90	0.10	3.42		
							17.20	5639.76	**96998.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
15	KSRB 4.9.2: Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14**	Qtl							
			0.85	17.20			**14.62**	7450.92	**108926.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	**7450.92**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
16	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 159 / Item No. 19.60 / PWD SR 2013-14**	Cum							
			1	150.00	8.00	0.60	720.00		
							720.00	166.32	**119750.00**
	Basic Rate	154.00							
	Area Weightage @ 8%	12.32							
	Total	**166.32**							
17	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.3 / PWD SR 2013-14**	Sqm							
			1	148.00	8.00		1184.00		
							1184.00	72.79	**86186.00**
	Basic Rate	67.40							
	Area Weightage @ 8%	5.39							
	Total	**72.79**							
								Total	**1465661.00**
	(Rs. Fourteen Lakhs Sixty Five Thousand Six Hundred and Sixty One Only)								

Technical Sanction for Rs. 1465661.00
Fourteen lakhs sixty five thousand six hundred & sixty one only
Registered as EE No. ... Dated ... Subject to conditions contained therein vide memo. No: .../139 Dt. 01/08/14
AE/JE
EE (BTP.Div.)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

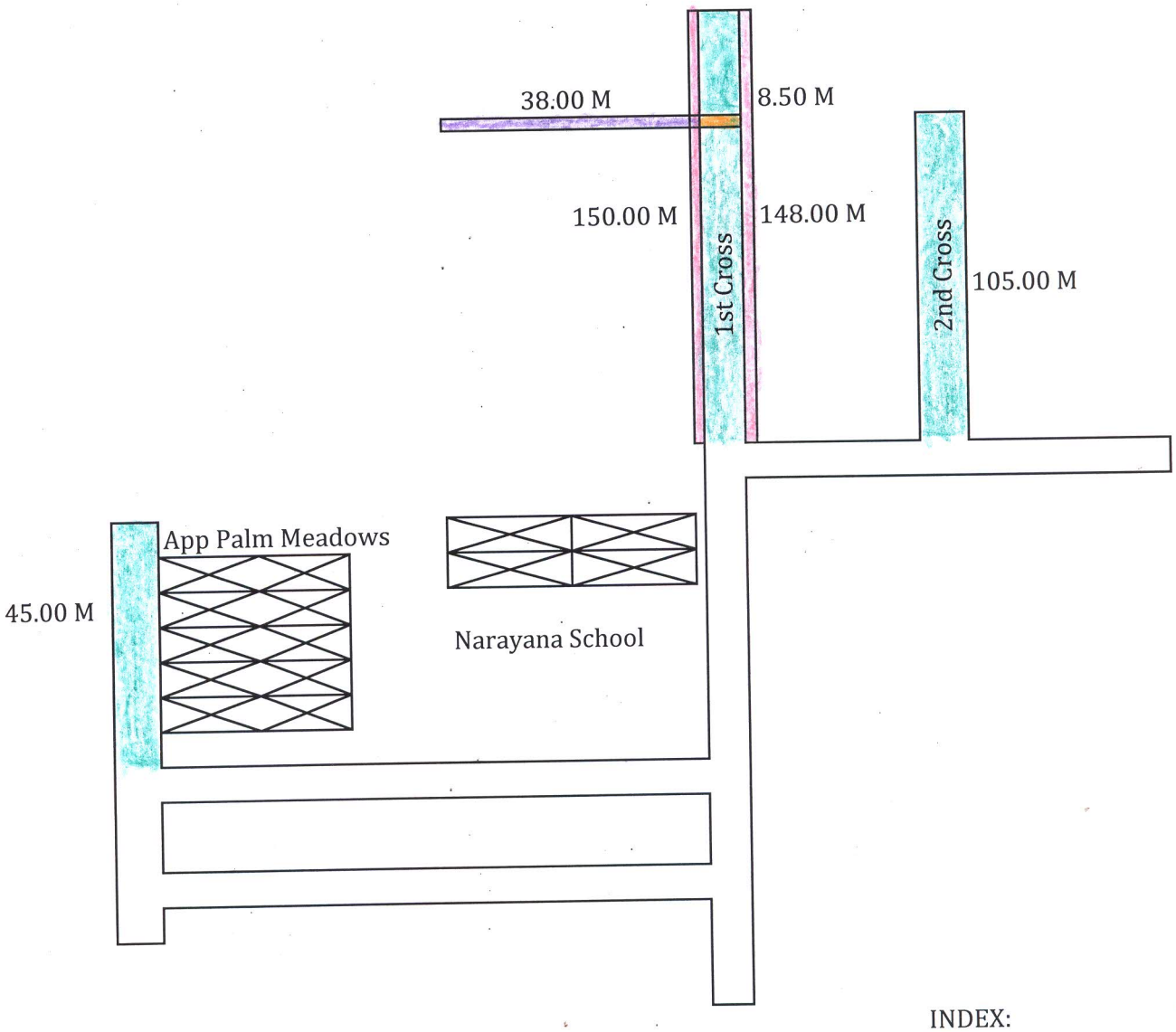
Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಯಲಹಂಕ ವಲಯ
ಬೆಂಗಳೂರು-560092

Name of Work: Modified Estimate for Providing Asphalting to Roads and Improvements of Drains in Balaji Layout Surroundings in Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.



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- Asphalt Road
- BS Slab Drain
- Culvert
- CC Drain

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Vidyaranyapura Sub Division